



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

October 1, 1982

Mr. Harold K. Kobayashi, President
Westwater, Inc.
98-1617 Piki Street
Aiea, Hawaii 96701

RE: Tentative Approval
Harley Dome Minerals Mine
ACT/019/012
Grand County, Utah

Dear Mr. Kobayashi:

On September 23, 1982, the Board of Oil, Gas and Mining approved the amount of reclamation surety and concurred with the Division staff's recommendation to grant tentative approval to the Harley Dome Minerals Mine. A notice soliciting public comment has been prepared, and the required 30-day comment period from the date of publication (September 30) will ensue.

Final approval may be issued when the following conditions have been met:

1. The 30-day public comment period has passed with no adverse comments being received.
2. Surety in the proper full amount has been submitted to the Division. Please see attachment for reclamation cost estimate. The form of the surety must be approved by the Board prior to implementation.
3. The following stipulations must be agreed to in writing:
 - A. At least 60 days prior to the initiation of any contemporaneous reclamation activities, soil samples must be taken for the purpose of making any fertility recommendations necessary to facilitate successful reclamation.

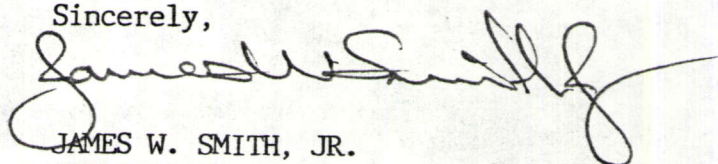
Laboratory tests will aid in detecting any physical or chemical soil conditions which may be detrimental to plant growth and in indicating any deficient nutrients. These tests should include, but not be limited to, soil texture, pH, electrical conductivity, available nitrogen, available phosphorus, available potassium, soluble calcium, magnesium and sodium.

Mr. Harold Kobayashi
October 1, 1982
Page Two

- B. Prior to the initiation of reclamation, Westwater shall submit results of the samples taken above and consult with the Division for the purpose of determining any soil amendments (including humates) and the rate of necessary amendments.
- C. Maps, plans and cross sections which accurately depict the location (including elevation and proximity to work areas) and the methods (including cap rock placement) to be employed to isolate stockpiled soils from all drainages and to offer adequate protection of temporary soils stockpiles must be provided by October 30, 1982. A combination of temporary seed mixes, mulching and properly sloped stockpiles will minimize loss of soil from wind or water erosion. Please commit to such measures and agree to notify the Division at least two weeks prior to generating the initial stockpile so Division members may review the methods to be employed.
- D. Westwater must agree to employ the soil tabulation chart, or an equivalent method to keep a running total of disturbed area versus amount of soil available for reclamation.

If you have questions or concerns on any of these conditions, please contact me or Susan Linner of my staff.

Sincerely,



JAMES W. SMITH, JR.
COORDINATOR OF
MINED LAND DEVELOPMENT

Enclosure

JWS/SCL/mm

cc: Pete Christensen, BLM, Moab
La Rell Baker
Gerald Turner

DIVISION OF OIL, GAS, AND MINING
BOND ESTIMATE

OPERATOR: Westwater, Inc.
MINE NAME: Westwater Humus Mines
LOCATION: Section 22, Township 19 South, Range 22 East
COUNTY: Grand County, Utah
DATE: August 27, 1982

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	NA		
	2. Removal of trash & debris.			
	3. Leveling of ancillary facilities pads and access roads.			
B.	REGRADING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	1 acre	D-6 for 20 hrs @ \$75/hr	\$1,500.00
	2. Recontouring of highwalls and excavations.			
	3. Spreading of soil or surficial materials.			
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	1 acre	Seed drill 25 hrsp. \$8/hr	200.00
	2. Seeding or planting.			
	3. Construction of terraces, water-bars, etc.	1 acre	Seed (20# - PLS)	200.00
D.	LABOR			
	1. Supervision.			
	2. Labor exclusive of bulldozer time.			
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.			
	2. Removal or neutralization of explosive or hazardous materials.			
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.		\$1,000/yr for 3 yrs.	3,000.00
	2. Irrigation		Water truck 16 hrs @ \$43.75/hr	700.00
G.	OTHER			
	15 acre - \$39,000			
	Monitoring - \$ 3,000			2,600.00/acre

Westwater Bond (continued)

Page Two

COST

1. Backfilling and Grading - 20 hrs @ \$75/hr D-6 (D-6C, 10K)	\$ 1,500.00
2. Revegetation - A. Mechanical Spreader, 25 hrs @ \$8/hr	200.00
B. Seed (20# PLS drilled)	200.00
3. Irrigation - 5 miles from river \$43.75/hr - 2,000 gallons Water Truck 4 hrs/day X 4 days \$43.75/hr X 16 hrs -	<u>700.00</u>
\$2,600 X 15 acres = \$39,000	\$ 2,600.00/acre
Monitoring \$1,000/year for 3 years =	\$ 3,000.00
Bonding is for 15 acre increments	<u>39,000.00</u>
	<u>\$42,000.00</u>
10% Administrative Cost	<u>4,200.00</u>
	<u>\$46,200.00</u>

@ 12% Inflation:

1982 - \$46,200
1983 - \$51,744
1984 - \$57,953
1985 - \$64,908
1986 - \$72,697